Amendment to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1-118. (*cancelled*)

119. (*currently amended*) A recombinant or synthetic polynucleotide encoding a protein that comprises an amino acid sequence at least 60% identical to SEQ. ID NO:118 when the entire sequence of said protein is optimally aligned with SEQ ID NO:118, and that comprises each of the following structures in the order amino terminus-(f)-(a)-(b)-(c)-(d)-(e)-carboxy terminus:

- a) X₃-Arg-X₂-Pro-Lys-X₃ (SEQ. ID NO:139)
- b) X-Arg-X-Ile-X (SEQ. ID NO:143)
- c) X_4 -Phe- X_3 -Asp- X_4 -Tyr-Asp- X_2 (SEQ. ID NO:144)
- d) Tyr-X₄-Gly-X₂-Gln-Gly-X₃-Ser-X₈ (SEQ. ID NO:146)
- e) X_6 -Asp-Asp-X-Leu- X_3 (SEQ. ID NO:147); and
- f) either: Trp-R₁-X₇-R₁-R₁-R₂-X-Phe-Phe-Tyr-X-Thr-Glu-X₈-R₃-

 R_3 -Arg- R_4 - X_2 -Trp (SEQ. ID NO:16), or: Trp- R_1 - X_7 - R_1 - R_2 -X-Phe-Phe-Tyr-X-Thr-Glu- X_9 - R_3 - R_3 -Arg- R_4 - X_2 -Trp (SEQ. ID NO:17);

wherein R_1 is Leu or Ile; R_2 is Gln or Arg; R_3 is Phe or Tyr; R_4 is Lys or His, \underline{X} represents an unspecified amino acid and X_n represents the number n of consecutive unspecified amino acids; and wherein the protein has telomerase catalytic activity when complexed with a telomerase RNA component.

120-126. (cancelled)

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127. (withdrawn) A method for increasing proliferative capacity of a cell of a vertebrate species, comprising expressing the polynucleotide of claim 119 in the cell in vitro.